



BNS 180-12Z-2187-2 10,0M

- Thermoplastic enclosure
- Suitable for food processing industry only in combination with BP 15 SS
- Particularly large switching distance
- Ø M 18 x 1
- Long life
- no mechanical wear
- Insensitive to transverse misalignment
- Insensitive to soiling
- uncodiert, verdeckter Einbau gem. ISO 14119

Data

Ordering data

Product type description	BNS 180-12Z-2187-2 10,0M
Article number (order number)	101161469
EAN (European Article Number)	4030661195155
eCl@ss number, version 11.0	27-27-24-02
eCl@ss number, version 9.0	27-27-24-02
ETIM number, version 7.0	EC002544
ETIM number, version 6.0	EC002544

Approvals - Standards

Certificates	TÜV
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General data

Standards	BG-GS-ET-14 EN IEC 60947-5-3
Coding level according to EN ISO 14119	None
Working principle	Magnetic drive
Installation conditions (mechanical)	quasi-flush
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	400 g

General data - Features

Number of normally closed (NC)	2
Number of normally open (NO)	1
Number of safety contacts	2
Number of cable wires	6

Safety classification

Standards	EN ISO 13849-1
Mission time	20 Year(s)

Mechanical data

Actuating element	Magnet
Switching distance actuator	Actuating magnet BP 6, Sao: 10 mm Actuating magnet BP 6, Sar: 22 mm Actuating magnet BP 8, Sao: 10 mm Actuating magnet BP 8, Sar: 22 mm Actuating magnet BP 10, Sao: 20 mm Actuating magnet BP 10, Sar: 32 mm Actuating magnet BP 15 SS, Sao: 20 mm Actuating magnet BP 15 SS, Sar: 32 mm
Direction of motion	Head-on to the active surface

Mechanical data - Switching distances according EN IEC 60947-5-3

Assured switching distance	18 mm
"ON" S_{ao}	28 mm
Assured switching distance	22 mm
"OFF" S_{ar}	32 mm

Mechanical data - Connection technique

Length of cable	10 m
Termination	Cable
Wire cross-section	0.25 mm ²
Wire cross-section	23 AWG
Material of the Cable mantle	PVC

Mechanical data - Dimensions

ISO thread of the sensor	M18
Length of sensor	36 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature	-25 ... +70 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+70 °C
Resistance to vibrations	10 ... 55 Hz, amplitude 1 mm
Resistance to shock	30 g / 11 ms

Electrical data

Switching current, maximum	0.25 A
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Switching capacity, maximum 3 W

Switching frequency, maximum 5 Hz

Scope of delivery

Scope of delivery Actuator must be ordered separately.

Accessory

Recommendation (actuator)	BP 10 BP 8 BP 6 BP 15 SS
Recommended safety switchgear	SRB-E-301ST SRB-E-201LC

Note

Note (General) Contact symbols shown for the closed condition of the guard device. The safety sensor must be mounted in such a way that actuation with another magnet is impossible (concealed mounting according to EN ISO 14119)

Ordering code

Product type description:
BNS 180-(1)Z-(2)

(1)

11	1 NO contacts/1 NC contact
12	1 NO contact/2 NC contacts
02	2 NC contact

(2)

2187-2	Individual contact outlet
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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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